

AIM Ann Report  
1870 to 1871

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N2 611

REPORT

OF THE

AUCKLAND INSTITUTE

FOR

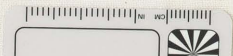
1870-71.

ADOPTED AT THE ANNUAL MEETING HELD FEBRUARY 20th, 1871.

Auckland:  
PRINTED BY WILLIAM ATKIN, HIGH STREET.

1871.

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O F F I C E R S

OF THE

AUCKLAND INSTITUTE

(ELECTED FEBRUARY 20TH, 1871).

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C O U N C I L.

President:

T. HEALE, Esq., C.E.

GILLIES, HIS HONOR T. B.

KINDER, REV. J.

KIRK, T., Esq.

LUSK, H. H., Esq.

PURCHAS, REV. A. G., M.R.C.S.E.

STEWART, JAS., Esq., C.E., &c.

STRATFORD, S. J., Esq.,

M.R.C.S.E.

TINNE, T. F. S., Esq.

Secretary and Treasurer:

T. KIRK, Esq.

Auditor:

G. B. OWEN, Esq.

# AIM Ann Report 1870 to 1871

*The following Magazines and Periodicals are circulated amongst  
the members:—*

Quarterly Journal of Micro-  
scopical Science  
Quarterly Journal of Science  
Nature  
Geological Magazine  
Practitioner  
Lancet

Botanical Magazine  
Gardeners' Chronicle  
Mechanics' Magazine  
Scientific American  
Chemical News  
Popular Science Review  
&c., &c., &c.



## REPORT.

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THE Council of the Auckland Institute has great pleasure in stating that the third year of its existence has been marked by a large accession of members, and by direct evidence of increased interest in the work in which it is engaged. Much of this is, without doubt, due to the free distribution of the annual volume of Transactions of the New Zealand Institute to its members, and is the more satisfactory from the fact that a fair proportion of the contents of that volume was contributed by the Auckland Institute.

During the past year eight meetings have been held, at which papers have been read on the following subjects :--On the Botany of certain parts of the Waikato Country, by T. Kirk; On the Occurrence of Littoral Plants in the Upper Waikato, by T. Kirk; On the Sailing Flight of the Albatross, in reply to J. S. Webb, by Captain F. W. Hutton, F.G.S.; On Certain Changes in the Habits of Rats, at Raglan; On the Nests and Eggs of Five Species of New Zealand Birds, not previously described, by Captain F. W. Hutton, F.G.S.; On the Use of Saltwater in the Field Boiler, by James Stewart, C.E.; An account of Experiments to determine the Power required to Work the Flax Machines in common use in the Province of Auckland, by James Stewart, C.E.; Remarks upon New Zealand Flax as a Paper-making Material, by T. Kirk; On the Relative Ages of the Waitemata Series and the Brown Coal Series of Waikato and Drury, by Captain F. W. Hutton, F.G.S.; On a Self-acting Clamp Wire Tramway, specially adapted for hilly districts, by F. W. Wright, L.M.B.T.A.; On the Botany of the Auckland Isthmus and the North Shore of the Waitemata, by T. Kirk; On a Carbonaceous Mineral found at Whangarei Heads, by Captain F. W. Hutton, F.G.S.; Notes on recent Additions to the New Zealand Flora, by T. Kirk; On the Artesian Wells of Napier, by Captain F. W. Hutton, F.G.S.; On the Occurrence of Native Mercury at the Bay of Islands, by Captain F. W. Hutton, F.G.S.; On the analogy between the Indo-European languages and the Maori, by E. Fairburn; On the Botany of the Country between Whangarei and

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the North Cape, by T. Kirk; On a supposed Native Rat observed at Whangarei; On the Use of the Semi-circular Protractor, with a description of an Improved Form of that Instrument, by James Stewart, C.E.; On New Zealand Flax, by T. F. S. Tinne; Description of New Plants, by T. Kirk; On Economical Railways and Rolling Stock, by James Stewart, C.E.; On Certain Projected Street Improvements, by R. W. Dyson.

A lecture on the manufacture of "New Zealand Flax" was kindly delivered by Captain F. W. Hutton, and, at the request of persons engaged in its export, has been separately printed for the use of the public. Considerable discussion was elicited by the lecture, as well as by many of the papers. The papers will be printed in the forthcoming volume of "Transactions of the New Zealand Institute," now in the hands of the printer.

The contributions to the Museum have been unusually numerous and valuable, as will be seen from the appended list. The Council would particularly direct attention to the important collections presented by the Director of the Colonial Museum, and takes this opportunity of recording the value it places upon the labours of that gentleman to further the objects of the Institute. The number of visitors to the Museum has largely increased, and the Council has felt it necessary to incur a considerable outlay in connection with both the Museum and Library.

It was deemed advisable to open negotiations with the Mechanics' Institute with the object of effecting union of action on the part of both bodies. The plan suggested by the Council proposed practical amalgamation on all points involving joint interest, such as the maintenance of a free public library, lectures, classes, &c., buildings, insurance, &c., but left to each body the working out of its special functions, and the undivided control of its separate portion of the building. A general meeting of the members of the Mechanics' Institute was held, at which a committee was appointed to confer with the Council of this Institute. The question was fairly discussed at a meeting of the Committee and Council, and on the whole was favorably regarded: but no further communication has passed, and the Council can now only express its readiness to consider any proposition that may be made by the Mechanics' Institute. The only objection of the slightest value that has yet been urged to the proposed union is that it would necessarily involve the removal of



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the Mechanics' Institute from its present site to that occupied by the Museum buildings. There can, however, be no question that the inconvenience which would be caused by the removal has been greatly exaggerated. The discussion of this question has, however, prevented the committee, appointed to consider the utilisation of the site of the Museum building from drawing up a report, as it is obvious that, in the event of the proposed union being effected, buildings of a different kind from those which would meet the requirements of this Institute alone would be required.

The Council has great satisfaction in stating that a grant of one hundred pounds has been made by the Provincial Council in aid of the Auckland Institute, the mode of its expenditure to be subject to the approval of the library committee. It is proposed to spend this sum in nearly equal moieties on the purchase of books for the public library, and special objects for the Museum. Particulars of the proposed expenditure have been placed in the hands of the Provincial Secretary, and it is expected that authority will shortly be given for payment of the grant.

At the October meeting his Honor the Superintendent was appointed to vote in the election of Governors of the New Zealand Institute, and has since been elected a Governor thereof. At the November meeting the following gentlemen were nominated for election as honorary members of the New Zealand Institute under the new statutes :—Dr. J. D. Hooker, C.B., F.R.S., &c. ; Dr. F. von Mueller, C.M.G., F.R.S., &c. ; Dr. Ferdinand von Hochstetter, Professor of Minerology at Institute of Vienna, &c. The result of the election has not yet transpired.

Forty-three copies of Transactions of the New Zealand Institute for 1869 have been received from the Board of Governors, to be disposed of for the benefit of the funds of this Institute, in lieu of a direct grant of money.

One of the most striking characteristics of the present day is the increasing appreciation of the value of scientific education as a means of developing the observing and perceptive faculties. The diffusion of scientific knowledge to this end, the advancement of science itself, and the development of the rich natural resources of our adopted country are amongst the objects to the furtherance of which the Council now earnestly invites the active assistance of every member.

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## THE AUCKLAND INSTITUTE, IN ACCOUNT WITH THOS. KIRK, TREASURER.

### RECEIPTS.

Dr.					£	s.	d.
To balance brought forward	...	...	...	...	27	2	11
Subscriptions and Entrance Fees	...	...	...	...	172	14	6
Receipts at Lectures, &c.	...	...	...	...	2	18	6
Transactions sold	...	...	...	...	16	1	0
Total	...	...	...	...	£218	16	11

### EXPENDITURE.

Cr.					£	s.	d.
By Objects for Museum, Books, &c.	...	...	...	...	61	19	7
Insurance	...	...	...	...	11	5	0
Transactions, vol. I.	...	...	...	...	4	10	0
Printing and Advertising	...	...	...	...	21	2	11
Curator	...	...	...	...	72	10	0
Incidental Expenses	...	...	...	...	12	17	6
Invested in New Zealand Savings' Bank	...	...	...	...	10	10	0
Balance in hand	...	...	...	...	24	1	11
Total	...	...	...	...	£218	16	11

### INVESTMENT FUND.

Dr.						£	s.	d.
To Life Subscription	...	...	...	...	...	10	10	0
Cr.						£	s.	d.
By Cash deposited in New Zealand Savings' Bank	...				...	10	10	0

Having duly examined the accounts and vouchers, I certify the above balance sheet to be correct.

G. B. OWEN, Auditor.

Auckland, February 20, 1871.

DONATIONS TO THE LIBRARY.

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- Anatomical Plates—Dr Horne.  
Life and Correspondence of Sir J. E. Smith—Dr Horne.  
Reports of the Geological Survey of New Zealand—Dr Hector,  
F.R.S.  
On Flight, by Captain F. W. Hutton, F.G.S.—the Author.  
Notes on a Short Tour in the Waikato, 1852—A. Kennedy.  
The First Report of the Auckland Agricultural and Horticultural  
Association, 1843—A. Kennedy.  
On the Anatomy of Balanoptera rostrata, by A. Carse—Captain  
F. W. Hutton, F.G.S.  
Notes on the Genus Chiasmodon, by A. Carse—Captain F. W.  
Hutton, F.G.S.  
Canada, by J. S. Hogan—Dr Stratford.  
Geological Survey of Canada, 1853 to 1856—Dr Stratford.  
Plans of Lakes and Rivers between Lake Huron and the Ottawa—  
Dr Stratford.  
Report of the Exploration of the Country between Lake Superior  
and the Red River—Dr Stratford.  
Huxley's Address to the Geological Society—Captain F. W. Hutton.  
Hochstetter's New Zealand—Director of the Colonial Museum.  
Catalogue of the Colonial Museum—Director of the Colonial  
Museum.  
Jurors' Reports on the New Zealand Exhibition—Director of the  
Colonial Museum.  
Catalogue of India Exhibits New Zealand Exhibition—Director of  
Colonial Museum.  
Transactions of the Royal Society of Tasmania—Mrs Sinclair.  
18 Reports and Pamphlets—Mrs Sinclair.  
Dampier's Travels—J. George.  
Scropes' Volcanoes of Central France—Rev. J. Kinder.  
Transactions of the Royal Society, Vols. I. and II.—J. George.  
Catalogue of Fossil Remains of Mammalia and Aves, Prof. Owen  
—O'Neill.

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## DONATIONS TO THE MUSEUM.

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- Rock Specimens, Starbuck Island—R. F. Arundel.  
4 Rock Specimens, Maunganni, Tauranga—Rev. J. Kinder.  
A Series of Rock Specimens from the Te Arai and Mangawai districts—F. G. Shepherd.  
8 Specimens of Auriferous and Fossiliferous Rocks from the Queensland Gold Fields—Dr Hector, F.R.S.  
3 Rock Specimens, Canterbury—Dr Hector, F.R.S.  
8 Rock Specimens, Norfolk Island—Rev. J. Atkin.  
Fossil Plants, Waikato—Dr Hector, F.R.S.  
Native Alum, Orakeikorako.  
Quartz Specimens with Dendritic Markings—Dr Stratford.  
Quartz Specimens with Dendritic Markings—J. Waymouth.  
2 Rock Specimens, Omaha—J. Meiklejohn.  
Rock Specimens and Minerals—W. Scott.  
Silicified Wood—W. Scott.  
Slabs Showing Footprints of the Moa, with casts of same, from Poverty Bay—Archdeacon Williams.  
2 Fossil Specimens, Kawa Kawa—Rev. A. G. Purchas.  
Agate—Master A. H. Williams.  
383 Rock Specimens—The Director of the Colonial Museum.  
12 Zeolites—The Director of the Colonial Museum.  
Fossils—The Director of the Colonial Museum.  
Selenite, Thames—H. Chamberlain.  
Native Mercury, Bay of Islands—Captain F. W. Hutton, F.G.S.  
Native Mercury in Vein, &c., Bay of Islands—Captain F. W. Hutton, F.G.S.  
Antimony, Fiji—F. W. Moss.  
Mercury from Bay of Islands—Rev. A. G. Purchas, M.D.  
Sand with Mercury and Cinnabar—Rev. A. G. Purchas, M.D.  
Fossil Unio, Kawa Kawa—D. Middleton.  
Fossil Shells—His Honor T. B. Gillies.  
Bark and Lignite, Fort Britomart—Dr J. R. Nicholson.  
Stalactites, &c., Manukau—Rev. A. G. Purchas.  
Skin of Procellaria Parkinsoni—J. Jones.

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## II

- 16 Bird Skins, New Zealand—Captain F. W. Hutton, F.G.S.  
 Skin of Whale Bird, Prion Turtur—Rev. A. G. Purchas.  
 12 Bird Skins, New Zealand—Director of the Colonial Museum.  
 Nest and Eggs of Fantail—Colonel Haultain.  
 Dabchick—Mrs Yandle.  
 Skin of Bittern—Rev. Dr Purchas.  
 Eggs of Cormorant, *Graculus carboides*—Dr A. Fox.  
 Skin of Cape Pigeon—Dr Dawson.  
 Skin of *Gallinago pusilla*—T. B. Hill.  
 Whale Bird, Prion Turtur—Mrs Yandle.  
 Skeleton of *Apteryx Australis*—Director of Colonial Museum.  
 Remora sp.—Mrs Baber.  
 A Fish, *Ostracion* sp.—Rev. J. Kinder.  
 A Fish, *Gadopsis* sp.—Betts.  
 Hippocampus sp.—Dr Wattling.  
 Ten Species of Freshwater Fishes—C. O. Davis.  
 Porcupine Fish, *Diodon* sp.—W. Scott.  
 Pipe Fish—T. F. S. Tinne.  
 Skull of Snapper—Dr A. Fox.  
 Iguana and Snake in Spirit, Fiji Islands—Mrs Spencer.  
*Nautinus Pacificus*—C. O. Davis.  
 A Crayfish in Spirit—C. O. Davis.  
 A Star Fish, Napier—Miss E. M. Williams.  
 3 Star Fishes—The Director of the Colonial Museum.  
 Snake in Spirit, Levuka—E. McCulloch, per S. Jones.  
 Snake in Spirit—Captain Stephens.  
 Freshwater Leech—Rev. A. G. Purchas.  
 Epizoid Worm—T. Fish.  
 Chama Gigas—W. Atkin.  
 Pinna Nova Zelandia and other shells—Colonel Haultain.  
*Helix Hochstetteri*—His Honor T. B. Gillies.  
 Triton, Terebratula, Cassis and other Shells—The Misses King,  
 Te Puni.  
*Ianthina Communis* and various Marine Shells—Archdeacon  
 Williams.  
 Australian and New Zealand Shells—T. G. Shepherd.  
 80 Shells, New Zealand—The Director of the Colonial Museum.  
 17 Shells, New Hebrides—The Director of the Colonial Museum.  
 13 Shells, Fijian—The Director of the Colonial Museum.



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- Sundry Shells—A. McEwen.  
Balimus sp.—H. Mair.  
Unio sp.—Major G. Mair.  
2 New Land Shells—A. M. Sheppard.  
Cirrhipedes—C. O. Davis.  
Pholades in Rock—H. Keesing, jun.  
Sea Slug—J. Farmer.  
Various Marine Shells—C. Matthews.  
An Insect from the Fiji Islands—Rev. J. Atkin.  
Cermatia sp.—Bentley.  
Scolopendra sp.—T. Russell.  
Large Fijian Beetle—F. O. Moss.  
Weta, &c.—D. Fish.  
Phasma horrida—T. Kirk.  
Skull of Walrus—Dr S. H. Ford, Russell.  
Dried New Zealand Plants—T. Kirk.  
300 Dried New Zealand Plants—Director of the Colonial Museum.  
Cordyceps Sinclairii—Archdeacon Williams.  
Cordyceps Sinclairii—A. McEwen.  
Dried Plants—C. O. Davis.  
114 Specimens Illustrative of Economic Botany—The Director of the Colonial Museum.  
3 "Vegetable Sheep," Raoulia sp., &c.—The Director of the Colonial Museum.  
Cladonia retipora—T. Kirk.  
Marine Plant (?)—Colonel Haultain.  
Cotton Pods, Fiji—F. W. Moss.  
Various Specimens of New Zealand Flax Fibre—T. F. S. Tinne.  
Dressed Tihore Flax, prepared for Twine and for the manufacture of Kaitaka Mats—Archdeacon Williams.  
Mill manufactured Flax in various stages—Captain F. W. Hutton, F.G.S.  
10 specimens New Zealand Flax—Director of the Colonial Museum.  
56 specimens Vegetable Fibres—Director of the Colonial Museum.  
Piece of Hern's Oak—G. S. Graham.  
Various Corals, Starbuck Island—R. F. Arundel.  
Echinus Spines, Starbuck Island—R. F. Arundel.  
Water Horn, from Table Bay—T. G. Shepherd.  
Fijian Pottery, Fans, Stone Hatchets, Shell Armlets, Liku or Woman's Dress, Ear-rings—F. W. Moss.

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Native Manufactures in Horn, Tortoise Shell and Wood, Java—  
G. B. Owen.

Stone Adze—S. B. Ludbrook.

2 Chert Flakes, formerly used as knives—Director of the Colonial  
Museum.

6 Windworn Stones—Director of the Colonial Museum.

Pua, bread made from the pollen of the Raupo—Director of the  
Colonial Museum.

Stone Adze, formerly the property of Heke—G. Kemp.

Patu, formerly belonging to Tareha—F. Kemp.

Copper Spike from the Ship "Bounty"—Miss Dora Kemp.

Stone Adze, Mount Eden—S. B. Firth.

Stone Adze, Mount Eden—Dr Wright.

Fern Pounder—Dr Wright.

Spade used by the Zulus, Port Natal—J. T. Mackelvie.

Stone Adze, Shark Weight, Stone for Pounding Maize—Master  
Cottle.

Portion of Wreck of H.M.S. "Buffalo"—H. A. H. Monro.

Leg Irons from H.M.S. "Buffalo"—Anderson.

1 Japanese Coin—T. B. Hill.

1 Japanese Coin—H. Chamberlain.

1 Indian Coin—H. Chamberlain.

1 Russian Coin—H. Chamberlain.

1 English Coin—H. Chamberlain.

1 Copper Coin—G. Hime.

7 Copper Coins—J. Doull.

Balls of Hair, found in the stomachs of Oxen—R. Carter.

Specimens of Auckland Pottery—J. T. Mackelvie

A Collection of Wools and Photographs of Sheep from the Bushy  
Park flock, Otago—F. D. Rich, per Rev. Dr. Purchas.

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## AUCKLAND INSTITUTE.

LIST OF MEMBERS FOR THE YEAR ENDING MARCH 31st, 1871.

### Life Member.

Leaf, C. J., London.

Aitken, W., Auckland  
Alexander, C., Auckland  
Allen, J. S., Auckland  
Allom, A. J., Shortland  
Atkin, W., Tamaki  
Atkin, William, Auckland

Baber, J., C.E., Auckland  
Ball, T., Mongonui  
Barber, W. B., Devonport  
Barstow, R. C., Bay of Islands  
Beale, B. C., M.D., Hamilton  
Beere, D. M., Shortland  
Bousfield, O. L. W., Gisborne  
Breton, Captain F. G., Auckland  
Brookfield, F. M. P., Auckland  
Bruce, Rev. D., Auckland  
Buchanan, Jas., Auckland  
Buchanan, Jno., Auckland  
Buckland, W. T., Auckland  
Buller, Rev. J., Grahamstown

Campbell, H., Auckland  
Chamberlain, The Hon. H., M.L.C.,  
Parnell  
Chapman, G. T., Auckland  
Cheeseman, T. F., Remuera  
Clarke, J. M., Auckland  
Clarke, H. T., Tauranga  
Cochrane, S., Auckland  
Codrington, Rev. R. H., Norfolk  
Island

Cook, A. G., Upper Norwood, Eng-  
land  
Cowie, The Right Rev. W.G., D.D.,  
Bishop of Auckland  
Cruikshank, D. B., Auckland

Daddy, W. C., Auckland  
Dargaville, J. M., Auckland  
Davy, G. H., Shortland  
Diddams, J. W., Auckland  
Dyson, R. W., Auckland

Farmer, J., Remuera  
Firth, J. C., Auckland  
Fischer, C. F., Sydney  
Ford, S. H., M.D., Russell  
Fox, A., M.R.C.P., Shortland

George, J., Auckland  
Gillies, His Honor T. B., Superin-  
tendent of the Province of Auck-  
land  
Gittos, B., Auckland  
Goldsboro', C. F., M.D., Auckland  
Goldsmith, H., C.E., Shortland  
Graham, W. K., London  
Gwynneth, J., C.E., Grahamstown

Hankey, E. A., London  
Harding, S., Grahamstown  
Haultain, The Hon. Colonel T. M.,  
Auckland

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Hay, D., Auckland  
Hay, W. M., Auckland  
Heale, T., C.E., Auckland  
Heaphy, C., V.C., Major A.R.V.  
Henderson, T., jun., Auckland.  
Hill, W., jun., Auckland  
Hunt, R. R., Ngaurawahia  
Hunt, W. A., Remuera  
Hutton, Captain F. W., F.G.S.,  
Churchill

Ireland, H., Waimate

Jackson, S., Auckland  
Jones, S., Auckland  
Jones, W. W., M.D., Cambridge

Kidd, R., L.L.D., Auckland  
Kinder, Rev. J., Auckland  
Kirk, T., Auckland

Larkworthy, F., London  
Lee, W., M.R.C.S.E., Auckland  
Lowe, J., C.E., Auckland  
Lusk, H. H., Auckland  
Lyell, J. L., Epsom

MacCormick, J. C., Auckland  
Macfarlane, J. S., Auckland  
Macfarlane, R. J., C.E., Grahams-  
town.

Macfarlane, Tho., Auckland  
Mackay, J., jun., Auckland  
Mackay, R., Auckland  
MacKechie, E. A., Auckland  
MacKellar, H. S., Auckland  
Mackelvie, J. T., Auckland  
MacLean, B., Tamaki  
MacLean, The Honourable D.,  
Napier

MacLean, E., Howick  
MacLeod, J., Kawa Kawa  
MacRae, F., Auckland  
Mair, Major G., Tauranga  
Mair, R., Wangarei  
Mair, Major W. G., Opotiki  
Manning, F. E., Hokianga

Matthews, E. J., Auckland  
Meinertzhagen, F. H., Napier  
Mitford, G. A., Parnell  
Morton, H. B., Auckland  
Morrin, T., Auckland  
Morrin, W., Auckland  
Monro, H. A. H., Auckland  
Murdoch, D.L., Epsom

Nesbitt, W. K., M.D., Auckland  
Nicholson, J. R., M.D., Auckland

Ogilvie, J., Auckland  
O'Keefe, D., Shortland  
O'Neill, C., Auckland  
O'Rorke, G. M., Onehunga  
Owen, G. B., Epsom  
Owen, G. N., London

Palmer, W. J., Auckland  
Peacock, T., Auckland  
Philcox, W., Auckland  
Phillips, P. A., Auckland  
Phillips, C., Auckland  
Phillipson, T., Auckland  
Pollen, The Honourable D., M.D.,  
Te Whau  
Purchas, Rev. A. G., M.R.C.S.E.,  
Onehunga

Robertson, J., Auckland  
Russell, T., Auckland

Sheehan, J., Auckland  
Sheppard, A. M., Whangape  
Shera, J. M., Auckland  
Sinclair, A., Auckland  
Smart, J., Auckland  
Stewart, J., C.E., Auckland  
Stewart, T. M., Auckland  
Stone, C. J., Auckland  
Stratford, S. J., M.R.C.S.E., Parnell

Tassell, R., M.D., Auckland  
Tinne, T. F. S., Auckland  
Tothill, C., Auckland

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Upton, J. H., Auckland  
Upton, W. B., Auckland

Vilcoq, A., Russell  
Vogel, The Hon. J., Wellington  
Von der Heyde, G., Auckland

Wardrop, A., Auckland  
Wark, J. N., Sydney, New South  
Wales  
Wattling, H. W., M.D., Auckland  
Wayland, J. M., Onehunga  
Waymouth, J., Grahamstown  
Wayte, E., Auckland

Weetman, S., Auckland  
Weston, T. S., Auckland  
Whitaker, F., Auckland  
Will, W., Auckland  
Williams, H., Bay of Islands  
Williams, Archdeacon W. L., Poverty Bay  
Williamson, The Hon. Jas., Auckland  
Williamson, Jno., Auckland  
Wilson, W. C., Auckland  
Wright, F. W., L. M. B. Toronto, Auckland  
Wrigley, J., Auckland



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